

RAW SEQUENCE LISTING DATE: 05/03/2001
 PATENT APPLICATION: US/09/444,067 TIME: 12:06:23

Input Set : N:\Crif3\RULE60\09444067.txt
 Output Set: N:\CRF3\05032001\I444067.raw

SEQUENCE LISTING

4 (1) GENERAL INFORMATION:
 6 (i) APPLICANT: Murphy, Brian R.
 7 Collins, Peter L.
 8 Whitehead, Stephen S.
 9 Bukreyev, Alexander A.
 10 Juhasz, Katalin
 12 (ii) TITLE OF INVENTION: PRODUCTION OF ATTENUATED RESPIRATORY
 13 SYNCYTIAL VIRUS VACCINES FROM CLONED NUCLEOTIDE SEQUENCES
 15 (iii) NUMBER OF SEQUENCES: 14
 17 (iv) CORRESPONDENCE ADDRESS:
 18 (A) ADDRESSEE: Townsend and Townsend and Crew LLP
 19 (B) STREET: Two Embarcadero Center, 8th Floor
 20 (C) CITY: San Francisco
 21 (D) STATE: CA
 22 (E) COUNTRY: USA
 23 (F) ZIP: 94111-3834
 25 (v) COMPUTER READABLE FORM:
 26 (A) MEDIUM TYPE: Floppy disk
 27 (B) COMPUTER: IBM PC compatible
 28 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 29 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
 31 (vi) CURRENT APPLICATION DATA:
 C--> 32 (A) APPLICATION NUMBER: US/09/444,067
 C--> 33 (B) FILING DATE: 19-Nov-1999
 34 (C) CLASSIFICATION:
 44 (vii) PRIOR APPLICATION DATA:
 37 (A) APPLICATION NUMBER: 08/892,403
 38 (B) FILING DATE:
 41 (A) APPLICATION NUMBER: US 60/046,141
 42 (B) FILING DATE: 09-MAY-1997
 45 (A) APPLICATION NUMBER: US 60/021,773
 46 (B) FILING DATE: 15-JUL-1996
 48 (viii) ATTORNEY/AGENT INFORMATION:
 49 (A) NAME: Parmelee, Steven W.
 50 (B) REGISTRATION NUMBER: 31,990
 51 (C) REFERENCE/DOCKET NUMBER: 17634-000510
 53 (ix) TELECOMMUNICATION INFORMATION:
 54 (A) TELEPHONE: 206-467-9600
 55 (B) TELEFAX: 415-576-0300
 58 (2) INFORMATION FOR SEQ ID NO: 1:
 60 (i) SEQUENCE CHARACTERISTICS:
 61 (A) LENGTH: 15223 base pairs
 62 (B) TYPE: nucleic acid
 63 (C) STRANDEDNESS: single
 64 (D) TOPOLOGY: linear
 66 (ii) MOLECULE TYPE: cDNA

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70      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
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76  TGATAAAAGT TAGATTACAA AATTTGTTTG ACAATGATGA AGTAGCATTG TTAATAATAA      180
78  CATGCTATAC TGATAAATTA ATACATTTAA CTAATGCTTT GGCTAAGGCA GTGATACATA      240
80  CAATCAAATT GAATGGCATT GTGTTTGTGC ATGTTATTAC AAGTAGTGAT ATTTGCCCTA      300
82  ATAATAATAT TGTAGTAAAA TCCAATTTCA CAACAATGCC AGTACTACAA AATGGAGGTT      360
84  ATATATGGGA AATGATGGAA TTAACACATT GCTCTCAACC TAATGGTCTA CTAGATGACA      420
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88  AATTATCTGA ATTACTTGGA TTTGATCTTA ATCCATAAAT TATAATTAAT ATCAACTAGC      540
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102 CCTATGCCAA TATTCATCAA TCATGATGGG TTCTTAGAAT GCATTGGCAT TAAGCCTACA      960
104 AAGCATACTC CCATAATATA CAAGTATGAT CTCAATCCAT AAATTTCAAC ACAATATTCA      1020
106 CACAATCTAA AACAACAACCT CTATGCATAA CTATACTCCA TAGTCCAGAT GGAGCCTGAA      1080
108 AATTATAGTA ATTTAAAACT TAAGGAGAGA TATAAGATAG AAGATGGGGC AAATACAACC      1140
110 ATGGCTCTTA GCAAAGTCAA GTTGAATGAT AACTCAACA AAGATCAACT TCTGTCATCC      1200
112 AGCAAATACA CCATCCAACG GAGCACAGGA GATAGTATTG ATACTCCTAA TTATGATGTG      1260
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116 TTCCTGGGT TAATAGGTAT GTTATATGCG ATGTCTAGGT TAGGAAGAGA AGACACCATA      1380
118 AAAATACTCA GAGATGCGGG ATATCATGTA AAAGCAAATG GAGTAGATGT AACAACACAT      1440
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124 GAAATGGGAG AGGTAGCTCC AGAATACAGG CATGACTCTC CTGATTGTGG GATGATAATA      1620
126 TTATGTATAG CAGCATTAGT AATAACTAAA TTAGCAGCAG GGGACAGATC TGGTCTTACA      1680
128 GCCGTGATTA GGAGAGCTAA TAATGCTCTA AAAAATGAAA TGAACGTTA CAAAGGCTTA      1740
130 CTACCCAAGG ACATAGCCAA CAGCTTCTAT GAAGTGTGTTG AAAAACATCC CCACTTTATA      1800
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134 GGGATTTTTG CAGGATTGTT TATGAATGCC TATGGTGCAG GGCAAGTGAT GTTACGGTGG      1920
136 GGAGTCTTAG CAAAATCAGT TAAAAATATT ATGTTAGGAC ATGCTAGTGT GCAAGCAGAA      1980
138 ATGGAACAAG TTGTTGAGGT TTATGAATAT GCCCAAAAAT TGGGTGGTGA AGCAGGATTC      2040
140 TACCATATAT TGAACAACCC AAAAGCATCA TTATTATCTT TGAATCAATT TCCTCACTTC      2100
142 TCCAGTGTAG TATTAGGCAA TGCTGCTGGC CTAGGCATAA TGGGAGAGTA CAGAGGTACA      2160
144 CCGAGGAATC AAGATCTATA TGATGCAGCA AAGGCATATG CTGAACAACCT CAAAGAAAAT      2220
146 GGTGTGATTA ACTACAGTGT ACTAGACTTG ACAGCAGAAG AACTAGAGGC TATCAAACAT      2280
148 CAGCTTAATC CAAAAGATAA TGATGTAGAG CTTTGAGTTA ATAAAAAATG GGGCAAATAA      2340
150 ATCATCATGG AAAAGTTTGC TCCTGAATTC CATGGAGAAG ATGCAAAACA CAGGGCTACT      2400
152 AAATTCCTAG AATCAATAAA GGGCAAATTC ACATCACCCA AAGATCCCAA GAAAAAAGAT      2460
154 AGTATCATAT CTGTCAACTC AATAGATATA GAAGTAACCA AAGAAAGCCC TATAACATCA      2520
156 AATTCAACTA TTATCAACCC AACAAATGAG ACAGATGATA CTGCAGGGAA CAAGCCCAAT      2580
158 TATCAAAGAA AACCTCTAGT AAGTTTCAAA GAAGACCCTA CACCAAGTGA TAATCCCTTT      2640
160 TCTAAACTAT ACAAAGAAAC CATAGAAACA TTTGATAACA ATGAAGAAGA ATCCAGCTAT      2700
162 TCATACGAAG AAATAAATGA TCAGACAAAC GATAATATAA CAGCAAGATT AGATAGGATT      2760
164 GATGAAAAAT TAAGTGAATG ACTAGGAATG CTTACACAT TAGTAGTGCC AAGTGCAGGA      2820
166 CCTACATCTG CTCGGGATGG TATAAGAGAT GCCATGGTTG GTTTAAGAGA AGAAATGATA      2880

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168	GAAAAAATCA	GAAGTGAAGC	ATTAATGACC	AATGACAGAT	TAGAAGCTAT	GGCAAGACTC	2940
170	AGGAATGAGG	AAAGTGAAAA	GATGGCAAAA	GACACATCAG	ATGAAGTGTC	TCTCAATCCA	3000
172	ACATCAGAGA	AATTGAACAA	CCTATTGGAA	GGGAATGATA	GTGACAATGA	TCTATCACTT	3060
174	GAAGATTTCT	GATTAGTTAC	CAATCTTCAC	ATCAACACAC	AATACCAACA	GAAGACCAAC	3120
176	AAACTAACCA	ACCCAATCAT	CCAACCAAAC	ATCCATCCGC	CAATCAGCCA	AACAGCCAAC	3180
178	AAAACAACCA	GCCAATCCAA	AACTAACCAC	CCGGAAAAAA	TCTATAATAT	AGTTACAAAA	3240
180	AAAGGAAAGG	GTGGGGCAAA	TATGGAACA	TACGTGAACA	AGCTTCACGA	AGGCTCCACA	3300
182	TACACAGCTG	CTGTTCAATA	CAATGTCTTA	GAAGAAAGACG	ATGACCCTGC	ATCACTTACA	3360
184	ATATGGGTGC	CCATGTTTCCA	ATCATCTATG	CCAGCAGATT	TACTTATAAA	AGAACTAGCT	3420
186	AATGTCAACA	TACTAGTGAA	ACAAATATCC	ACACCCAAGG	GACCTTCACT	AAGAGTCATG	3480
188	ATAAACTCAA	GAAGTGCAGT	GCTAGCACAA	ATGCCAGCA	AATTTACCAT	ATGCGCTAAT	3540
190	GTGTCCTTGG	ATGAAAGAAG	CAAACTAGCA	TATGATGTAA	CCACACCCTG	TGAAATCAAG	3600
192	GCATGTAGTC	TAACATGCCT	AAAATCAAAA	AATATGTTGA	CTACAGTTAA	AGATCTCACT	3660
194	ATGAAGACAC	TCAACCTTAC	ACATGATATT	ATTGCTTTAT	GTGAATTTGA	AAACATAGTA	3720
196	ACATCAAAAA	AAGTCATAAT	ACCAACATCA	CTAAGATCCA	TCAGTGTGAG	AAATAAAGAT	3780
198	CTGAACACAC	TTGAAAAATAT	AACAACCACT	GAATTCAAAA	ATGCTATCAC	AAATGCAAAA	3840
200	ATCATCCCTT	ACTCAGGATT	ACTATTAGTC	ATCACAGTGA	CTGACAACAA	AGGAGCATTC	3900
202	AAATACATAA	AGCCACAAAG	TCAATTCATA	GATAGTCTTG	GAGCTTACCT	AGAAAAAGAA	3960
204	AGTATATATT	ATGTTACCAC	AAATTGGAAG	CACACAGCTA	CACGATTTGC	AATCAAACCC	4020
206	ATGGAAGATT	AACCTTTTTC	CTCTACATCA	GTGTGTTAAT	TCATACAAAC	TTTCTACCTA	4080
208	CATTCTTCAC	TTCAACATCA	CAATCACAAA	CACCTCTGTG	TTCAACCAAT	CAAACAAAAC	4140
210	TTATCTGAAG	TCCCAGATCA	TCCCAGTCA	TTGTTTATCA	GATCTAGTAC	TCAAATAAGT	4200
212	TAATAAAAAA	TATACACATG	GGGCAAAATA	TCATTGGAGG	AAATCCAAC	AATCACAATA	4260
214	TCTGTTAACA	TAGACAAGTC	CACACACCAT	ACAGAATCAA	CCAATGGAAA	ATACATCCAT	4320
216	AACAATAGAA	TTCTCAAGCA	AATTCTGGCC	TTACTTTACA	CTAATACACA	TGATCACAAAC	4380
218	AATAATCTCT	TTGCTAATCA	TAATCTCCAT	CATGATTGCA	ATACTAAACA	AACCTTTGTGA	4440
220	ATATAACGTA	TTCCATAACA	AAACCTTTGA	GTTACCAAGA	GCTCGAGTCA	ACACATAGCA	4500
222	TTCATCAATC	CAACAGCCCA	AAACAGTAAC	CTTGCAATTA	AAAATGAACA	ACCCCTACCT	4560
224	CTTTACAACA	CCTCATTAAC	ATCCCACCAT	GCAAAACCACT	ATCCATACTA	TAAAGTAGTT	4620
226	AATTAATAAT	AGTCATAACA	ATGAACTAGG	ATATCAAGAC	TAACAATAAC	ATTGGGGCAA	4680
228	ATGCAAAACAT	GTCCAAAAAC	AAGGACCAAC	GCACCGCTAA	GACATTAGAA	AGGACCTGGG	4740
230	ACACTCTCAA	TCATTTATTA	TTTATATCAT	CGTGCTTATA	TAAGTTAAAT	CTTAAATCTG	4800
232	TAGCACAAAT	CACATTATCC	ATTCTGGCAA	TGATAATCTC	AACCTCACTT	ATAATTGCAG	4860
234	CCATCATATT	CATAGCCTCG	GCAAACCACA	AAGTCACACC	AACAACCTGCA	ATCATACAAG	4920
236	ATGCAACAAG	CCAGATCAAG	AACACAACCC	CAACATACCT	CACCCAGAAT	CCTCAGCTTG	4980
238	GAATCAGTCC	CTCTAATCCG	TCTGAAATTA	CATCACAAAT	CACCACCATA	CTAGCTTCAA	5040
240	CAACACCAGG	AGTCAAGTCA	ACCCTGCAAT	CCACAACAGT	CAAGACCAAA	AACACAACAA	5100
242	CAACTCAAAC	ACAACCAGC	AAGCCACCA	CAAAACAACG	CCAAAACAAA	CCACCAAGCA	5160
244	AACCCAATAA	TGATTTTCAC	TTTGAAGTGT	TCAACTTTGT	ACCCTGCAGC	ATATGCAGCA	5220
246	ACAATCCAAC	CTGCTGGGCT	ATCTGCAAAA	GAATACCAAA	CAAAAAACCA	GGAAAGAAAA	5280
248	CCACTACCAA	GCCCACAAA	AAACCAACCC	TCAAGACAAC	CAAAAAAGAT	CCCAAACCTC	5340
250	AAACCACTAA	ATCAAAGGAA	GTACCCACCA	CCAAGCCAC	AGAAGAGCCA	ACCATCAACA	5400
252	CCACCAAAAC	AAACATCATA	ACTACACTAC	TCACCTCCAA	CACCACAGGA	AATCCAGAAC	5460
254	TCACAAGTCA	AATGGAAACC	TTCCACTCAA	CTTCCTCCGA	AGGCAATCCA	AGCCCTTCTC	5520
256	AAGTCTCTAC	AACATCCGAG	TACCATCAC	AACCTTCATC	TCCACCCAAC	ACACCACGCC	5580
258	AGTAGTTACT	TAAAAACATA	TTATCACAAA	AGGCCTTGAC	CAACTTAAAC	AGAATCAAAA	5640
260	TAAACTCTGG	GGCAAATAAC	AATGGAGTTG	CTAATCTCTA	AAGCAAATGC	AATTACCACA	5700
262	ATCCTCACTG	CAGTCACATT	TTGTTTGTCT	TCTGGTCAAA	ACATCACTGA	AGAATTTTAT	5760
264	CAATCAACAT	GCAGTGCAGT	TAGCAAAGGC	TATCTTAGTG	CTCTGAGAAC	TGGTTGGTAT	5820

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266	ACCAGTGTTA	TAACATATAGA	ATTAAGTAAT	ATCAAGAAAA	ATAAGTGTA	TGGAACAGAT	5880
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270	CAGTTGCTCA	TGCAAAGCAC	ACAAGCAACA	AACAATCGAG	CCAGAAGAGA	ACTACCAAGG	6000
272	TTTATGAATT	ATACACTCAA	CAATGCCAAA	AAAACCAATG	TAACATTAAG	CAAGAAAAGG	6060
274	AAAAGAAGAT	TTCTTGTTT	TTTGTTAGGT	GTTGGATCTG	CAATCGCCAG	TGGCGTTGCT	6120
276	GTATCTAAGG	TCCTGCACCT	AGAAGGGGAA	GTGAACAAGA	TCAAAAGTGC	TCTACTATCC	6180
278	ACAAACAAGG	CTGTAGTCAG	CTTATCAAAT	GGAGTTAGTG	TTTAAACCAG	CAAAGTGTTA	6240
280	GACCTCAAAA	ACTATATAGA	TAAACAATTG	TTACCTATTG	TGAACAAGCA	AAGCTGCAGC	6300
282	ATATCAAATA	TAGAAACTGT	GATAGAGTTC	CAACAAAAGA	ACAACAGACT	ACTAGAGATT	6360
284	ACCAGGGAAT	TTAGTGTTAA	TGCAGGCGTA	ACTACACCTG	TAAGCACTTA	CATGTAACT	6420
286	AATAGTGAAT	TATTGTCATT	AATCAATGAT	ATGCCTATAA	CAATGATCA	GAAAAAGTTA	6480
288	ATGTCCAACA	ATGTTCAAAT	AGTTAGACAG	CAAAGTTACT	CTATCATGTC	CATAATAAAA	6540
290	GAGGAAGTCT	TAGCATATGT	AGTACAATTA	CCACTATATG	GTGTTATAGA	TACACCCTGT	6600
292	TGGAACACTAC	ACACATCCCC	TCTATGTACA	ACCAACACAA	AAGAAGGGTC	CAACATCTGT	6660
294	TTAACAAGAA	CTGACAGAGG	ATGGTACTGT	GACAAATGCA	GATCAGTATC	TTTCTTCCCA	6720
296	CAAGCTGAAA	CATGTAAAGT	TCAATCAAAT	CGAGTATTTT	GTGACACAAT	GAACAGTTTA	6780
298	ACATTACCAA	GTGAAGTAAA	TCTCTGCAAT	GTTGACATAT	TCAACCCCAA	ATATGATTGT	6840
300	AAAATTATGA	CTTCAAAAAC	AGATGTAAGC	AGCTCCGTTA	TCACATCTCT	AGGAGCCATT	6900
302	GTGTCATGCT	ATGGCAAAAC	TAAATGTACA	GCATCCAATA	AAAATCGTGG	AATCATAAAG	6960
304	ACATTTTCTA	ACGGGTGCGA	TTATGTATCA	AATAAAGGGG	TGGACACTGT	GTCTGTAGGT	7020
306	AACACATTAT	ATTATGTAAA	TAAGCAAGAA	GGTAAAAGTC	TCTATGTAAA	AGGTGAACCA	7080
308	ATAATAAATT	TCTATGACCC	ATTAGTATTC	CCCTCTGATG	AATTTGATGC	ATCAATATCT	7140
310	CAAGTCAACG	AGAAGATTAA	CCAGAGCCTA	GCATTTATTC	GTAAATCCGA	TGAATTATTA	7200
312	CATAATGTAA	ATGCTGGTAA	ATCCACCACA	AATATCATGA	TAACACTAT	AATTATAGTG	7260
314	ATTATAGTAA	TATTGTATATC	ATTAATTGCT	GTTGGACTGC	TCTTATACTG	TAAGGCCAGA	7320
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318	AACATAATAA	AAATAGCACC	TAATCATGTT	CTTACAATGG	TTTACTATCT	GCTCATAGAC	7440
320	AACCCATCTG	TCATTGGATT	TTCTTAAAT	CTGAACCTCA	TCGAAACTCT	CATCTATAAA	7500
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324	ATGCCAGATT	AACTTACCAT	CTGTAAAAAT	GAAAACCTGG	GCAAATATGT	CACGAAGGAA	7620
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332	GTTGGACAGA	ACAGAAGAGT	ATGCTCTTGG	TGTAGTTGGA	GTGCTAGAGA	GTTATATAGG	7860
334	ATCAATAAAC	AATATAACTA	AACAATCAGC	ATGTGTTGCC	ATGAGCAAAC	TCCTCACTGA	7920
336	ACTCAATAGT	GATGATATCA	AAAAGCTGAG	GGACAATGAA	GAGCTAAATT	CACCCAAGAT	7980
338	AAGAGTGAC	AATACTGTCA	TATCATATAT	TGAAAGCAAC	AGGAAAAACA	ATAAACAAAC	8040
340	TATCCATCTG	TTAAAAAGAT	TGCCAGCAGA	CGTATTGAAG	AAAACCATCA	AAAACACATT	8100
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348	AAAACAACCC	AAATAACCAT	ATGTACTCAC	CGAATCAAAC	ATTCAATGAA	ATCCATTGGA	8340
350	CCTCTCAAGA	ATTGATTGAC	ACAATTCAAA	ATTTTCTACA	ACATCTAGGT	ATTATTGAGG	8400
352	ATATATATAC	AATATATATA	TTAGTGTCAT	AACACTCAAT	TCTAACACTC	ACCACATCGT	8460
354	TACATTATTA	ATTCAAAACAA	TTCAAGTTGT	GGGACAAAAT	GGATCCCAT	ATTAATGGAA	8520
356	ATTCTGTCAA	TGTTTATCTA	ACCGATAGTT	ATTTAAAAGG	TGTTATCTCT	TTCTCAGAGT	8580
358	GTAATGCTTT	AGGAAGTTAC	ATATTCAATG	GTCCTTATCT	CAAAAATGAT	TATACCAACT	8640
360	TAATTAGTAG	ACAAAATCCA	TTAATAGAAC	ACATGAATCT	AAAGAACTA	AATATAACAC	8700
362	AGTCCTTAAT	ATCTAAGTAT	CATAAAGGTG	AAATAAAATT	AGAAGAACCT	ACTTATTTTC	8760

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364 AGTCATTACT TATGACATAC AAGAGTATGA CCTCGTCAGA ACAGATTGCT ACCACTAATT 8820
366 TACTTAAAAA GATAATAAGA AGAGCTATAG AAATAAGTGA TGTCAAAGTC TATGCTATAT 8880
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370 ACAACTCAGT TATTACGACC ATAATCAAAG ATGATATACT TTCAGCTGTT AAAGATAATC 9000
372 AATCTCATCT TAAAGCAGAC AAAAATCACT CTACAAAACA AAAAGACACA ATCAAAACAA 9060
374 CACTCTTGAA GAAATTGATG TGTTCAATGC AACATCCTCC ATCATGGTTA ATACATTGGT 9120
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388 GGTCTACAT AATAAAAGAG GTAGAGGGAT TTATTATGTC TCTAATTTTA AATATAACAG 9540
390 AAGAAGATCA ATTCAGAAAA CGATTTTATA ATAGTATGCT CAACAACATC ACAGATGCTG 9600
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394 TGTCCGATAA TATAATAAAT GGCAGATGGA TAATTCTATT AAGTAAAGTTT CTTAAATTAA 9720
396 TTAAGCTTGC AGGTGACAAT AACCTTAACA ATCTGAGTGA ACTATATTTT TTGTTTCAGAA 9780
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400 ATGAGACCAA ATTTTACTTG TTAAGCAGTC TGAGTATGTT AAGAGGTGCC TTTATATATA 9900
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408 CTAAAAAAGT GGATCTTGAA ATGATTATAA ATGATAAAGC TATATCACCT CCTAAAAATT 10140
410 TGATATGGAC TAGTTTCCCT AGAAATTACA TGCCATCACA CATACAAAAC TATATAGAAC 10200
412 ATGAAAAAAT AAAATTTTCC GAGAGTGATA AATCAAGAAG AGTATTAGAG TATTATTTAA 10260
414 GAGATAACAA ATTCAATGAA TGTGATTTAT ACACTGTGT AGTTAATCAA AGTTATCTCA 10320
416 ACAACCCTAA TCATGTGGTA TCATTGACAG GCAAAGAAAG AGAACTCAGT GTAGGTAGAA 10380
418 TGTTTGCAAT GCAACCGGA ATGTTACAG AGGTTCAAAT ATTGGCAGAG AAAATGATAG 10440
420 CTGAAAACAT TTTACAATTC TTTCTGAAA GTCTTACAAG ATATGGTGAT CTAGAACTAC 10500
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424 ACAACAATTA CATTAGTAAG TGCTCTATCA TCACAGATCT CAGCAAATTC AATCAAGCAT 10620
426 TTCGATATGA AACGTCATGT ATTTGTAGTG ATGTGCTGGA TGAAGTGCAT GGTGTACAAT 10680
428 CTCTATTTTC CTGGTTACAT TTAATATTC CTCATGTCAC AATAATATGC ACATATAGGC 10740
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434 AAGCTATATC ACTATTGGAT CTAATATCTC TCAAAGGGAA ATTCTCAATT ACTGCTTTAA 10920
436 TTAATGGTGA CAATCAATCA ATAGATATAA GCAAACCAAT CAGACTCATG GAAGGTCAAA 10980
438 CTCATGCTCA AGCAGATTAT TTGCTAGCAT TAAATAGCCT TAAATTACTG TATAAAGAGT 11040
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442 TTATGAGTAA AACAATTCAA CATAACGGTG TATATTACCC AGCTAGTATA AAGAAAGTCC 11160
444 TAAGAGTGGG ACCGTGGATA AACACTATA TTGATGATTT CAAAGTGAGT CTAGAATCTA 11220
446 TAGGTAGTTT GACACAAGAA TTAGAATATA GAGGTGAAAG TCTATTATGC AGTTTAATAT 11280
448 TTAGAAATGT ATGGTTATAT AATCAGATTG CTCTACAATT AAAAAATCAT GCATTATGTA 11340
450 ACAATAAACT ATATTTGGAC ATATTAAAGG TTCTGAAACA CTTAAAAACC TTTTTTAATC 11400
452 TTGATAATAT TGATACAGCA TTAACATTGT ATATGAATTT ACCCATGTTA TTTGGTGGTG 11460
454 GTGATCCCAA CTTGTTATAT CGAAGTTTCT ATAGAAGAAC TCCTGACTTC CTCACAGAGG 11520
456 CTATAGTTCA CTCTGTGTTT ATACTTAGTT ATTATACAAA CCATGACTTA AAAGATAAAC 11580
458 TTCAAGATCT GTCAGATGAT AGATTGAATA AGTTCTTAAC ATGCATAATC ACGTTTGACA 11640
460 AAAACCCTAA TGCTGAATTC GTAACATTGA TGAGAGATCC TCAAGCTTTA GGGTCTGAGA 11700

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/444,067

DATE: 05/03/2001

TIME: 12:06:24

Input Set : N:\Crf3\RULE60\09444067.txt

Output Set: N:\CRF3\05032001\I444067.raw

L:32 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:33 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]